MLTI Program Expansion Opportunity

Participation and Order forms are due May 21, 2010

The Department of Education has arranged another opportunity for Maine schools to expand their Maine Learning Technology Initiative (MLTI) deployments. This opportunity is intended to allow schools to provide 1:1 student computing for high schools or elementary grade levels. Schools which provided 1:1 computing to 50% of their high school students this fall may now complete their deployment. In addition, school systems wishing to provide ineligible staff members with MLTI computers may do so through this opportunity.

Schools that are already participating in the MLTI at a 1:1 level, but that require additional student or eligible staff devices should disregard this packet. Instead, additional device requests for participating schools may be made online at http://www.maine.gov/mlti/devicerequest.

Program Deployment Status

The Maine Learning Technology Initiative expanded last summer and completed its third equipment upgrade. All participating schools as well as Maine public high schools and Career and Technical Centers had new wireless networks installed.

1:1 MLTI Schools

Middle Schools: 226 (100%)

High Schools*: 66 public (55%) & 1 private school

Students 7-8: 29,570

Students 9-12: 23,717

Teachers 7-8: 4468

Teachers 9-12: 7401

*All Maine public high schools are participating in the MLTI with at least teacher device deployments.

MLTI PARTICIPATION PACKET 2010

FOR MORE INFORMATION, PLEASE VISIT:

http://www.maine.gov/mlti/deployment

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THIS PACKET CONTAINS:

MLTI Program Description - UPDATE

MLTI Participation Form 2010

MLTI Device Order Form 2010

Appendix A - Device Specifications

Appendix B - Student and Staff Eligibility Guidelines

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MLTI Program Description

Goals

The MLTI goals remain

- Equity

- Integration with Maine's Learning Results

- Sustainability/Avoiding Obsolescence

- Teacher Preparation and Professional Development

- Economic Development

At a school and classroom level, these goals can be translated into a few more tangible actionable goals: 1) changing teacher practices in ways that leverage technology to facilitate a student-centered learning environment, and 2) active participation in on-going professional development efforts.

Professional Development

The heart of the MLTI program remains the professional development opportunities that are provided to teachers, administrators, and technical staff. The Department MLTI Project Team will continue to provide direct professional development to support changing teacher practices in ways that leverage technology to facilitate a student-centered learning environment. The Department is working with schools to develop ongoing and meaningful collaborations between schools and between educators to examine digital content, particularly Open Education Resources (OER), pedagogy and instructional practices, and the ever-changing landscape of technology tools. By tapping the expertise that exists locally in our teachers, administrators, and technology staff and leveraging local, state, and federal funds, the Department is hoping to reduce our school's dependence on traditional content resources and to move toward using more freely available digital, interactive, and online content. This will require more than simply swapping one content source for another, but a careful examination of how those materials are used, what instructional models are employed, and what technology is introduced to support both the content and the instruction.

The Department has expanding its use of online and distance technology tools including Studywiz, an online virtual learning environment, Adobe Connect, a real-time web conferencing tool, and iTunes U, a repository of recorded audio and video resources, to provide support and professional development opportunities to more teachers in more schools. To learn

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more about these resources, please visit http://www.maine121.org.

Apple, Inc. is providing direct support and assistance in collaboration with the Department as they have done over past 8 years. Apple has increased its Maine presence, and number of dedicated resources to support Maine educators.

There are a number of professional development options and opportunities for your building. If you are interested in having MLTI Professional Development in your building please visit: http://maine.gov/mlti/events/request.shtml.

Communication and Collaboration

The Studywiz online virtual learning environment has been expanded to accommodate login accounts for all participating students, teachers, and administrators. Through the use of this system, teachers are able to embed web 2.0 technologies within an safe and managed environment. Teachers can individualize resources and interactions with students providing content, instruction, and feedback to classrooms, small groups, or individuals as appropriate.

Electronic mail accounts are provided through a partnership with ePals, Inc. (http://www.maineconnects.net). ePals' SchoolMail provides an email environment that includes moderation control, grouping, and world language translation services. In addition, ePals hosts blogs for teachers that also include moderation and grouping controls for teachers. ePals' services are also available to any Maine school at any grade range.

Personal Digital Device

The MLTI 2010 deployment will include the "new" Apple MacBook mobile computer featuring the new unibody enclosure, longer 7 hour battery life, brilliant LED-backlit display and a new glass multi-touch trackpad. The MacBook is a fully configured, robust mobile computer that cuts no corners on performance, reliability, and functionality. Featuring a faster 2.26 Ghz Intel Core 2 Duo chip and 2GB of system RAM, the MacBook will provide the performance necessary to run modern applications and to manage multimedia creation and editing. Along with a larger 250GB internal hard drive for storing files and data, the device has a slot-loading CDRW-DVD SuperDrive that will allow the user to not only read and write CDs, but to read and write DVDs. Out of the box, the MacBook includes a built-in camera that will support video conferencing for distance learning opportunities for both students and teachers.

The MacBook will be preloaded with over 30 powerful digital tools that support teaching and learning. Each year, MLTI will provide an updated software image that will include the latest version of the Mac OS operating system (Mac OS X Snow Leopard) and the most current versions of key software applications including NoteShare, iLife, iWork, Google Sketchup Pro, Safari, and Firefox. In addition, the MLTI software image includes out of the box functionality with most digital cameras, digital video cameras, and digital data probes by leading manufacturers, PASCO Scientific and Vernier. For a complete list of technical specifications and software titles, please see Appendix A.

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Warranty and Support

Apple's MLTI support plan will continue in similar fashion as today's program. Each school's spare inventory will be 2% of the first year's deployment. Online tools like the MLTI Asset Manager, DepotWorks, and GSX will remain. Just as before, as batteries lose their ability to hold a reasonable charge, they will be replaced at no additional cost to schools.

The MLTI Local Depot will provide both warranty and non-warranty repairs. All costs related to non-warranty repairs will be the responsibility of the local school.

Schools have already been issued an administrative copy of Apple Remote Desktop (ARD) to allow technicians to push software updates or make configuration changes. ARD can also be used to remotely manage computers or gather reports about system configurations and software loads. Remote management tasks can be saved and reused or scheduled so they are performed at off-peak times, or whenever devices are available on the network. A task manager computer will be installed in new 1:1 MLTI participating High Schools.

The MLTI Restore solution will continue to be used to reimage devices. New restore mechanisms will be provided to each participating school at a ratio of 1 mechanism per 30 devices deployed with a minimum of 1 restore mechanism.

Insurance, Replacements, and the Buffer Pool

The Department will continue to provide catastrophic loss insurance protection. This insurance will provide protection should a large-scale disaster occur, and a school loses 25 or more devices in one incident such as a fire, flood, or other major disaster. Incidents of the same nature involving fewer than 25 devices will be covered through the Buffer Pool.

Protection for accidental damage and theft will be provided through the Buffer Pool. The Buffer Pool is located at the MLTI Local Repair Depot, and is managed jointly by the Department and Apple. Schools will be assigned an allocation of units from the Buffer Pool annually. Allocations will be approximately 7% of each school's total deployment size. This allocation is expected to provide coverage for the entire 4 years. In order to maintain adequate available Buffer Pool inventory, the Buffer Pool will be augmented by retiring from active service units which are no longer needed as a result of enrollment decreases across the State. Replacement units from the Buffer Pool are included in the program, and do not cost any additional funds from the local school.

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MLTI Participation Form 2010

Please complete and return this form for each school that is deploying 1:1 student MLTI devices for the first time only. Schools that deployed 1:1 student MLTI devices in the fall of 2009 do not need to resubmit this form. Please return by 12 p.m., May 21, 2010. Forms may be FAXed to (207) 624-6601, Attention Laura Brown or mailed to Laura Brown; MLTI Project Office; Department of Education; 23 State House Station; Augusta ME 04333

SAU Name		SAU MEDMS ID	4 digits
School Name		School MEDMS ID	4 digits

SAU Responsibilities

1. SAU agrees to deploy the MLTI laptop devices in a 1:1 fashion as defined by the Department.
2. SAU agrees to host parent meeting(s) to orient parents on the program, goals, and expectations.
3. SAU agrees to implement 7-12 student laptop take home policies and procedures by Oct. 4, 2010.
4. SAU agrees to attend training for and implement an Internet Safety program (i.e. NetSmartz.org).
5. SAU agrees to allow access to the MLTI Communication and Collaboration tools for all teachers.
6. SAU agrees that Principals and/or Superintendents will participate in annual State-sponsored professional development.
7. SAU agrees to support teacher participation in ongoing Professional Development.
8. SAU agrees to take take part in studies, surveys, etc. related to the MLTI project.
9. SAU understands that all laptop computer devices are leased by the State of Maine and agrees to maintain the computer equipment in good working order.
10. SAU agrees that it will not install unlicensed software.
11. SAU agrees not to violate the AppleCare warranty and MLTI support program (i.e. repair laptops using unauthorized methods, parts, or providers, alter or modify the installed wireless network for the term of the agreement).
12. SAU agrees to use the MLTI Local Depot or locally employ certified Apple technicians for all repairs of MLTI devices.
13. SAU understands that failing to return defective replacement parts in a reasonable timeframe can result in late fees and parts replacement costs. SAU agrees to pay late fees and replacement costs.
14. SAU agrees to return extra devices as population decreases, and to request additional devices as population increases.
15. SAU agrees to maintain accurate records in the MLTI Asset Manager.

By signing below, we are accepting the responsibilities as outlined above for the school listed above to participate in the Maine Learning Technology Initiative for the school year beginning in the Fall of 2010 and ending in the Spring of 2013.

_____ _____ _____
Superintendent Name (Please Print)   Signature   Date

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MLTI Device Order Form 2010

Please complete and return a copy of this form for **each participating school** in your SAU to the MLTI Project Office. Forms must be received by **12 p.m. May 21, 2010** and FAXed to Laura Brown, **(207) 624-6601** or mailed to:

MLTI Project Office • Attn: Laura Brown • Maine Department of Education • 23 State House Station • Augusta, ME 04333-0023

P L E A S E   P R I N T   L E G I B L Y

1) School Name	2) School MEDMS ID

3) Student Devices K-6	4) Student Devices 7-8 Existing MLTI schools needing additional student devices, please visit http://www.maine.gov/mlti/devicerequest	5) Student Devices 9-12
6) Staff Devices K-6	7) Eligible Staff Devices 7-8 Existing MLTI schools needing additional teacher devices, please visit http://www.maine.gov/mlti/devicerequest	8) Staff Devices 9-12 Existing MLTI schools needing additional teacher devices, please visit http://www.maine.gov/mlti/devicerequest
	9) Ineligible Staff Devices 7-8	10) Ineligible Staff Devices 9-12

11) Wireless Network
7-12 schools should have an MLTI-installed or equivalent wireless network. However, if your school needs to expand coverage or it is not a 7-12 school and needs a wireless network installation, please contact the Apple Project Office directly to discuss options, (207) 688-4501.

12) Payment Plan Options (enter number of devices for each plan)

1 year plan _____ x $872 = _____

2 year plan _____ x $446 = _____

3 year plan _____ x $299 = _____

Amounts above are annual totals to be invoiced quarterly.

I affirm that this information is correct and accurate. I understand that the School named in Line 1 will be responsible all payments as reflected on Box 12.

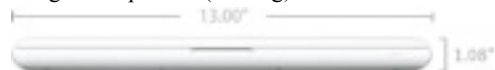_____   _____   _____
Superintendent Name (Please Print)   Signature   Date

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Appendix A — Device Specifications and Software

Size and weight

Height: **1.08** inches (2.74 cm)
Width: **13.00** inches (33.03 cm)
Depth: **9.12** inches (23.17 cm)
Weight: **4.7** pounds (2.13 kg)

Processor and memory

- 2.26GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache running 1:1 with processor speed
- 1066MHz frontside bus
- 2GB (two 1GB SO-DIMMs) of 1066MHz DDR3 SDRAM

Communications

- Built-in AirPort Extreme 802.11n Wi-Fi wireless networking.; IEEE 802.11a/b/g compatible
- Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) wireless technology
- Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

Display

13.3-inch (diagonal) LED-backlit glossy widescreen display with support for millions of colors

Graphics and video support

- NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory
- Extended desktop and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 2560 by 1600 pixels on an external display, both at millions of colors
- Built-in iSight camera
- Mini DisplayPort

Video output options

- **DVI output** using Mini DisplayPort to DVI Adapter (not included)
- **VGA output** using Mini DisplayPort to VGA Adapter (included with teacher devices)

Input

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted "T" arrangement)
- Multi-Touch trackpad for precise cursor control; supports two-finger scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities

Audio

- Built-in stereo speakers
- Built-in omnidirectional microphone
- Combined optical digital output/headphone out (user-selectable analog audio line in)
- Supports Apple Stereo Headset with microphone

Connections and expansion

- MagSafe power port
- Gigabit Ethernet port
- Mini DisplayPort
- Two USB 2.0 ports (up to 480 Mbps)
- Audio in/out
- Kensington lock slot

Storage

- 250GB 5400-rpm Serial ATA hard disk drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/ CD-RW)
  Maximum write: 8x DVD-R, DVD+R; 4x DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, DVD+RW; 24x CD-R; 10x CD-RW
  Maximum read: 8x DVD-R, DVD+R, DVD-ROM; 6x DVD-ROM (double layer DVD-9), DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, and DVD+RW; 24x CD

Battery and power

- Built-in 60-watt-hour lithium-polymer battery
- 60W MagSafe Power Adapter with cable management system
- MagSafe power port

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The following list of software titles are preloaded onto the MLTI devices. Annually, an updated software image is provided to schools that includes updates to the operating system, iLife, iWork, and most other applications. Software titles listed in **bold** are provided to the MLTI through generous donations by their respective developers.

Software Title	Description
Mac OS 10.6 Snow Leopard	Apple's latest operating system. Each year as available, the MLTI solution will be upgraded to utilize the latest version of the Mac OS.
1to1 Back up	A custom backup utility to help prevent data loss.
Acorn	Advance image editor, functionally similar to Adobe Photoshop. Offered to MLTI by Flying Meat http://flyingmeat.com/acorn/.
Acrobat Reader	Utility program used to read PDF formatted files.
Address Book	A contact manager that works in conjunction with many other applications including iWork and Mail.
AppleScript Utility	Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications.
Audio MIDI Setup	Utility to manage musical instruments connected to the computer.
Automator	Allow the user to write scripts and macros to facilitate workflows or automate tasks in other applications.
Bento	A relational database application. http://www.filemaker.com/products/bento/overview.html
Calculator	A scientific calculator.
ClamXav	Anti-virus software.
Comic Life	A graphic novel creation tool. http://plasq.com/comiclife
CyberDuck	An open source, fully featured FTP/SFTP client. Users may use it to upload web pages to web servers and perform other file transfer needs. http://cyberduck.ch. Offered to MLTI by the David Kocher, the creator of CyberDuck.
DataStudio	Data collection and analysis suite. Includes graphing calculator. Compatible with PASCO data probes. http://www.pasco.com/datastudio/
Dictionary	New Oxford English Dictionary and Oxford American Writer's Thesaurus.
DVD Player	A DVD disc player.
Firefox	Fast and popular open source web browser. http://www.mozilla.com/firefox/
Freemind	A mind-mapping software written in Java. Donated to MLTI by the FreeMind Software Project. http://freemind.sourceforge.net/wiki/index.php/Main_Page
GarageBand	Digital recording studio. Record and edit your own music or podcasts. http://www.apple.com/ilife/garageband/
GeoGebra	Geometry visualization software that allows for both geometric and algebraic input and manipulations. www.geogebra.org/
Google Earth	Puts a planet's worth of imagery and other geographic information right on your desktop. http://earth.google.com. Offered to MLTI by Google Inc.
Google SketchUp Pro	3D design software. http://www.sketchup.com. Offered to MLTI by Google Inc.
Grapher	A 2D and 3D graphing calculator as well as an equation editor. http://www.apple.com/macosx/newfeatures/over200.html
iCal	Calendar and to do list application.
iChat	Text, audio, and video chat software.
iDVD	DVD authoring tool. Part of iLife '09. http://www.apple.com/ilife/
iMovie	Digital movie creation and editing software. Part of iLife '09. http://www.apple.com/ilife/
iPhoto	Digital Photo management, image enhancement, and slideshows. Part of iLife '09. http://www.apple.com/ilife/
iTunes	Digital music management and encoding. http://www.apple.com/itunes
iWeb	Web page creation and publishing. Part of iLife '09. http://www.apple.com/ilife/
iWork '09 Keynote	Presentation software, part of Apple's iWork '09 productivity suite. http://www.apple.com/iwork/keynote/
iWork '09 Numbers	Spreadsheet software: write formulas, organize data, create charts. Part of the Apple iWork '09 productivity suite. http://www.apple.com/iwork/numbers/

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iWork '09 Pages	Word Processor and Page Layout. This document was created using Pages. http://www.apple.com/iwork/pages/
Logger Pro	Data Collection and analysis suite. Compatible with Vernier data probes. http://www.vernier.com/
Mail	Email Client and RSS reader. Synchronizes with iCal and Address Book. http://www.apple.com/macosx/features/mail.html
Maine Explorer	Inquiry-based science software that supports modeling and simulations. Designed by the Foundation for Blood Research and Maine Teachers, and funded by the National Science Foundation. http://www.fbr.org/
MyWorld GIS	A Geographic Information System for Inquiry-Based Learning. Query, plot and analyze geographic data such as climate, geology, biodiversity, population and more. http://www.pasco.com/myworld/
NeoOffice	Open source productivity suite. Includes word processing, spreadsheets, presentations, drawing, and database applications. http://www.neooffice.org
NetLogo	Programmable modeling environment for simulating natural and social phenomena. It is particularly well suited for modeling complex systems developing over time. http://ccl.northwestern.edu/netlogo/.
NoteShare	Collaborative Multimedia Digital Notebook. Create, organize, share, publish. http://www.aquaminds.com
OmniFocus	A professional task management tool that integrates well with iCal and Mail. http://www.omnigroup.com/applications/omnifocus/
OmniGraffle	Create diagrams, process charts, quick page-layouts, website mockups or graphic design. http://www.omnigroup.com/applications/omnigraffle/
OmniGraphSketcher	Combines the data plotting power of charting applications with the ease of a basic drawing program. http://www.omnigroup.com/applications/omnigraphsketcher/
OmniOutliner	A flexible program for creating, collecting, and organizing information. http://www.omnigroup.com/applications/omnioutliner/
OmniWeb	Fast and popular web browser. http://www.omnigroup.com/applications/omniweb/
OmniDazzle	A set of fun and useful enhancements that help you highlight certain areas of your screen, create visual effects, and track the location of your mouse pointer. http://www.omnigroup.com/applications/omnidazzle/
OmniDictionary	A Mac OS X client for network dictionary servers. Lookup words from multiple dictionaries and applications. http://www.omnigroup.com/applications/omnidictionary/
Photo Booth	Camera application for capturing still images and video, using the built in iSight camera. http://www.apple.com/findouthow/mac/
Preview	Multi-file format viewer (.pdf, .jpg, .gif, .png, .psd, and more). http://support.apple.com/kb/HT2506
ProfCast	An all-in-one Podcast production tool. http://www.profcast.com/
QuickTime Player	Digital media viewer application. http://www.apple.com/quicktime/
Safari	Web browser with RSS feed management. http://www.apple.com/macosx/features/safari.html
TextEdit	Text editor capable of reading and writing text (.txt), rich text format (.rtf), and Microsoft Word (.doc and .docx) formatted files. http://support.apple.com/kb/HT2523
Time Machine	A backup utility to help prevent data loss. Part of the Mac OS X. http://www.apple.com/macosx/features/timemachine.html
Voice Over Utility	Configuration tool with built-in screen reader for visually imparied users. Part of the Mac OS X. http://www.apple.com/accessibility/voiceover/

Appendix B — Device Eligibility Guidelines

Student Eligibility Guidelines

All full or part-time enrolled students at participating public schools in grades 7-12 are eligible to receive an MLTI device. Students who are partially or fully enrolled in a participating school, but receive some or all of their educational services in an alternate facility or program, should be issued a device from their enrolling school.

Staff Eligibility Guidelines

For participating public 7-12th grade schools, the Department will provide devices to certain eligible staff members in each school. Please review the following guidelines to determine which of your school's staff are eligible to receive an MLTI device. At this time, the Department will not be collecting lists of eligible staff names, but participating schools should be prepared to provide that information at a later date if it becomes necessary for auditing purposes. For staff who are ineligible based on these guidelines, schools may elect to order devices at local cost.

- All certified teachers who teach 7th - 12th grade subjects including, but not limited to, mathematics, science, language arts, social studies, visual and performing arts, world languages, physical education, CTE teachers and/or special education, are eligible to receive an MLTI device.
- All certified 7th - 12th grade principals, CTE directors, special education directors, deans, assistant principals, assistant CTE directors, assistant deans, guidance counselors, librarians, technology integrators, and literacy specialists are eligible to receive an MLTI device.
- At the SAU level, all superintendents, assistant superintendents, and curriculum directors/coordinators are eligible to receive an MLTI device.
- Each participating school may request one additional device for technology support staff image and configuration testing. This device is not intended to be used as a personal workstation.
- Collectively across a SAU, the SAU may request 1 additional device per 300 devices deployed (minimum of 1) for use by technology support staff including a district Technology Director.

Devices allocated for eligible staff may not be redeployed to ineligible staff members. If a school or SAU wishes to expand the program and deploy devices to ineligible staff, the school/SAU should order additional devices on the *Device Order Form 2010* at the $299 per seat per year cost.

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